

## SEQUENCE LISTING

<110> Ajinomoto Co., Inc.

<110> Kazusa DNA Research Institute

<120> Methods of increasing glutamic acid content in  
plants

<130> Y1J0188

<140>

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<150> JP 2001-208238

<151> 2001-07-09

<160> 20

<170> PatentIn Ver. 2.1

<210> 1

<211> 481

<212> PRT

<213> Arabidopsis thaliana

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1

5

10

15

Lys Cys Gln Tyr Ala Val Arg Gly Glu Leu Tyr Leu Arg Ala Ser Glu

20

25

30

Leu Gln Lys Glu Gly Lys Lys Val Ile Phe Thr Asn Val Gly Asn Pro

35

40

45

His Ala Leu Gly Gln Lys Pro Leu Thr Phe Pro Arg Gln Val Val Ala

50

55

60

Leu Cys Gln Ala Pro Phe Leu Leu Asp Asp Pro Asn Val Gly Met Leu

65

70

75

80

Phe Pro Ala Asp Ala Ile Ala Arg Ala Lys His Tyr Leu Ser Leu Thr

85

90

95

Ser Gly Gly Leu Gly Ala Tyr Ser Asp Ser Arg Gly Leu Pro Gly Val

100

105

110

Arg Lys Glu Val Ala Glu Phe Ile Gln Arg Arg Asp Gly Tyr Pro Ser

115

120

125

Asp Pro Glu Leu Ile Phe Leu Thr Asp Gly Ala Ser Lys Gly Val Met

130

135

140

Gln Ile Leu Asn Cys Val Ile Arg Gly Asn Gly Asp Gly Ile Leu Val

145

150

155

160

Pro Val Pro Gln Tyr Pro Leu Tyr Ser Ala Thr Ile Ser Leu Leu Gly

165

170

175

Gly Thr Leu Val Pro Tyr Tyr Leu Asp Glu Ser Glu Asn Trp Gly Leu

180

185

190

Asp Val Ala Asn Leu Arg Gln Ser Val Ala Gln Ala Arg Ser Gln Gly

195

200

205

Ile Thr Val Arg Ala Met Val Ile Ile Asn Pro Gly Asn Pro Thr Gly

210

215

220

Gln Cys Leu Ser Glu Ala Asn Ile Arg Glu Ile Leu Lys Phe Cys Tyr

225

230

235

240

Asn Glu Lys Leu Val Leu Leu Gly Asp Glu Val Tyr Gln Gln Asn Ile

245

250

255

Tyr Gln Asp Glu Arg Pro Phe Ile Ser Ser Lys Lys Val Leu Met Glu

260

265

270

Met Gly Ser Pro Phe Ser Lys Glu Val Gln Leu Val Ser Phe His Thr

275

280

285

Val Ser Lys Gly Tyr Trp Gly Glu Cys Gly Gln Arg Gly Gly Tyr Phe

290

295

300

Glu Met Thr Asn Leu Pro Pro Arg Val Val Glu Glu Ile Tyr Lys Val

305

310

315

320

Ala Ser Ile Ala Leu Ser Pro Asn Val Ser Ala Gln Ile Phe Met Gly

325	330	335	
Leu Met Val Asn Pro Pro Lys Pro Gly Asp Ile Ser Tyr Asp Gln Phe			
340	345	350	
Ala Arg Glu Ser Lys Gly Ile Leu Glu Ser Leu Arg Arg Arg Ala Arg			
355	360	365	
Leu Met Thr Asp Gly Phe Asn Ser Cys Lys Asn Val Val Cys Asn Phe			
370	375	380	
Thr Glu Gly Ala Met Tyr Ser Phe Pro Gln Ile Arg Leu Pro Thr Gly			
385	390	395	400
Ala Leu Gln Ala Ala Lys Gln Ala Gly Lys Val Pro Asp Val Phe Tyr			
405	410	415	
Cys Leu Lys Leu Leu Glu Ala Thr Gly Ile Ser Thr Val Pro Gly Ser			
420	425	430	
Gly Phe Gly Gln Lys Glu Gly Val Phe His Leu Arg Thr Thr Ile Leu			
435	440	445	
Pro Ala Glu Asp Glu Met Pro Glu Ile Met Asp Ser Phe Lys Lys Phe			
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Asn Asp Glu Phe Met Thr Gln Tyr Asp Asn Asn Phe Gly Tyr Ser Lys			
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26

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